Miguel A Garcia-Garibay

List of Publications by Year in descending order

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186 papers 8,266 citations

50 h-index 80 g-index

195 all docs 195 docs citations

195 times ranked 6346 citing authors

#	Article	IF	Citations
1	A Green Chemistry Approach toward the Stereospecific Synthesis of Densely Functionalized Cyclopropanes via the Solid-State Photodenitrogenation of Crystalline 1-Pyrazolines. Journal of Organic Chemistry, 2022, 87, 2277-2288.	3.2	1
2	Scale-Dependent Photosalience and Topotactic Reaction of Microcrystalline Benzylidenebutyrolactone Determined by Electron Microscopy and Electron Diffraction. Crystal Growth and Design, 2022, 22, 1533-1537.	3.0	3
3	Slip/Stick Viscosity Models of Nanoconfined Liquids: Solvent-Dependent Rotation in Metal–Organic Frameworks. Journal of Organic Chemistry, 2022, 87, 1780-1790.	3.2	3
4	Dipolar order in an amphidynamic crystalline metal–organic framework through reorienting linkers. Nature Chemistry, 2021, 13, 278-283.	13.6	26
5	Taming Radical Pairs in the Crystalline Solid State: Discovery and Total Synthesis of Psychotriadine. Journal of the American Chemical Society, 2021, 143, 4043-4054.	13.7	24
6	Enhanced Gearing Fidelity Achieved Through Macrocyclization of a Solvated Molecular Spur Gear. Journal of the American Chemical Society, 2021, 143, 7740-7747.	13.7	12
7	Rotational Dynamics of an Amphidynamic Zirconium Metal–Organic Framework Determined by Dielectric Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 5644-5648.	4.6	5
8	Strongly Entangled Triplet Acyl–Alkyl Radical Pairs in Crystals of Photostable Diphenylmethyl Adamantyl Ketones. Journal of the American Chemical Society, 2021, 143, 8886-8892.	13.7	2
9	Encapsulating <i>N</i> -Heterocyclic Carbene Binuclear Transition-Metal Complexes as a New Platform for Molecular Rotation in Crystalline Solid-State. Journal of the American Chemical Society, 2021, 143, 1144-1153.	13.7	27
10	2D Arrays of Organic Qubit Candidates Embedded into a Pillared-Paddlewheel Metal–Organic Framework. Journal of the American Chemical Society, 2020, 142, 18513-18521.	13.7	20
11	Scalable Synthesis of Vicinal Quaternary Stereocenters via the Solid-State Photodecarbonylation of a Crystalline Hexasubstituted Ketone. Organic Letters, 2020, 22, 8855-8859.	4.6	12
12	Correlated motion and mechanical gearing in amphidynamic crystalline molecular machines. Chemical Science, 2020, 11, 12994-13007.	7.4	43
13	Fluorescence Anisotropy Decay of Molecular Rotors with Acene Rotators in Viscous Solution. Journal of Organic Chemistry, 2020, 85, 6872-6877.	3.2	3
14	Computational Investigation into Ligand Effects on Correlated Geared Dynamics in Dirhodium Supramolecular Gearsâ€"Insights Beyond the NMR Experimental Window. Journal of Organic Chemistry, 2020, 85, 8695-8701.	3.2	3
15	Discovery and Total Synthesis of a Bis(cyclotryptamine) Alkaloid Bearing the Elusive Piperidinoindoline Scaffold. Journal of the American Chemical Society, 2020, 142, 11685-11690.	13.7	24
16	Kinetic Control in the Synthesis of a Möbius Tris((ethynyl)[5]helicene) Macrocycle Using Alkyne Metathesis. Journal of the American Chemical Society, 2020, 142, 6493-6498.	13.7	54
17	Molecular Spur Gears with Triptycene Rotators and a Norbornane-Based Stator. Organic Letters, 2020, 22, 4049-4052.	4.6	8
18	Enhanced Rotation by Ground State Destabilization in Amphidynamic Crystals of a Dipolar 2,3-Difluorophenylene Rotator as Established by Solid State ² H NMR and Dielectric Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 15391-15398.	3.1	12

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19	Evaluation of the photodecarbonylation of crystalline ketones for the installation of reverse prenyl groups on the pyrrolidinoindoline scaffold. Tetrahedron, 2020, 76, 131181.	1.9	3
20	Thermosalient Amphidynamic Molecular Machines: Motion at the Molecular and Macroscopic Scales. Matter, 2019, 1, 1033-1046.	10.0	81
21	Mechanistic Studies of Adamantylacetophenones with Competing Reaction Pathways in Solution and in the Crystalline Solid State. Journal of Organic Chemistry, 2019, 84, 11103-11113.	3.2	6
22	Fluorescence and Rotational Dynamics of a Crystalline Molecular Rotor Featuring an Aggregation-Induced Emission Fluorophore. Journal of Organic Chemistry, 2019, 84, 9570-9576.	3.2	15
23	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. Angewandte Chemie - International Edition, 2019, 58, 18003-18010.	13.8	56
24	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. Angewandte Chemie, 2019, 131, 18171-18178.	2.0	36
25	Thermally Activated Transient Dipoles and Rotational Dynamics of Hydrogen-Bonded and Charge-Transferred Diazabicyclo [2.2.2]Octane Molecular Rotors. Journal of the American Chemical Society, 2019, 141, 16802-16809.	13.7	24
26	The Roles of Intrinsic Barriers and Crystal Fluidity in Determining the Dynamics of Crystalline Molecular Rotors and Molecular Machines. Journal of Organic Chemistry, 2019, 84, 9835-9849.	3.2	38
27	Throwing in a Monkey Wrench to Test and Determine Geared Motion in the Dynamics of a Crystalline One-Dimensional (1D) Columnar Rotor Array. Journal of the American Chemical Society, 2019, 141, 2413-2420.	13.7	33
28	Taming Radical Pairs in Nanocrystalline Ketones: Photochemical Synthesis of Compounds with Vicinal Stereogenic All-Carbon Quaternary Centers. Journal of the American Chemical Society, 2018, 140, 8359-8371.	13.7	44
29	Nanosecond laser flash photolysis of a 6-nitroindolinospiropyran in solution and in nanocrystalline suspension under single excitation conditions. Photochemical and Photobiological Sciences, 2018, 17, 741-749.	2.9	10
30	Static Modulation Wave of Arrays of Halogen Interactions Transduced to a Hierarchy of Nanoscale Change Stimuli of Crystalline Rotors Dynamics. Nano Letters, 2018, 18, 3780-3784.	9.1	13
31	Transient Kinetics and Quantum Yield Studies of Nanocrystalline α-Phenyl-Substituted Ketones: Sorting Out Reactions from Singlet and Triplet Excited States. Journal of the American Chemical Society, 2018, 140, 8192-8197.	13.7	4
32	Transmission Spectroscopy and Kinetics in Crystalline Solids Using Aqueous Nanocrystalline Suspensions: The Spiropyran-Merocyanine Photochromic System. Crystal Growth and Design, 2017, 17, 637-642.	3.0	20
33	Photochemistry and Transmission Pump–Probe Spectroscopy of 2-Azidobiphenyls in Aqueous Nanocrystalline Suspensions: Simplified Kinetics in Crystalline Solids. Journal of Physical Chemistry Letters, 2017, 8, 1845-1850.	4.6	11
34	High-Yielding and Divergent Paradigm for the Synthesis of <i>D</i> _{2<i>h</i>} -Symmetric Octakis-Substituted Pentiptycenequinones. Organic Letters, 2017, 19, 1838-1841.	4.6	10
35	Rotational Dynamics of Diazabicyclo [2.2.2] octane in Isomorphous Halogen-Bonded Co-crystals: Entropic and Enthalpic Effects. Journal of the American Chemical Society, 2017, 139, 843-848.	13.7	71
36	Triplet Sensitized Photodenitrogenation of \hat{l} " < sup>2-1,2,3-Triazolines To Form Aziridines in Solution and in the Crystalline State: Observation of the Triplet 1,3-Alkyl-aminyl Biradical. Journal of Organic Chemistry, 2017, 82, 12128-12133.	3.2	7

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37	Generation and Reactivity Studies of Diarylmethyl Radical Pairs in Crystalline Tetraarylacetones via Laser Flash Photolysis Using Nanocrystalline Suspensions. Journal of the American Chemical Society, 2017, 139, 13312-13317.	13.7	14
38	Stereospecific photochemistry of \hat{l} 2-1,2,3-triazolines in solution and in the solid state: scope and mechanistic studies. Photochemical and Photobiological Sciences, 2017, 16, 1458-1463.	2.9	8
39	Ultrafast rotation in an amphidynamic crystalline metal organic framework. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13613-13618.	7.1	74
40	Phosphorescence Control Mediated by Molecular Rotation and Aurophilic Interactions in Amphidynamic Crystals of 1,4-Bis[tri-(<i>p</i> -fluorophenyl)phosphane-gold(I)-ethynyl]benzene. Journal of the American Chemical Society, 2017, 139, 18115-18121.	13.7	97
41	Diffusion-Controlled Rotation of Triptycene in a Metal–Organic Framework (MOF) Sheds Light on the Viscosity of MOF-Confined Solvent. ACS Central Science, 2016, 2, 608-613.	11.3	71
42	Solid State Characterization of Bridged Steroidal Molecular Rotors: Effect of the Rotator Fluorination on Their Crystallization. Crystal Growth and Design, 2016, 16, 1599-1605.	3.0	11
43	An Approach To Enhance the Safety Culture of an Academic Chemistry Research Laboratory by Addressing Behavioral Factors. Journal of Chemical Education, 2016, 93, 217-222.	2.3	41
44	Structure–Kinetics Correlations in Isostructural Crystals of α-(<i>ortho</i> -Tolyl)-acetophenones: Pinning Down Electronic Effects Using Laser-Flash Photolysis in the Solid State. Journal of the American Chemical Society, 2016, 138, 2644-2648.	13.7	15
45	Crystal Fluidity Reflected by Fast Rotational Motion at the Core, Branches, and Peripheral Aromatic Groups of a Dendrimeric Molecular Rotor. Journal of the American Chemical Society, 2016, 138, 4650-4656.	13.7	53
46	Dynamic Characterization of Crystalline Supramolecular Rotors Assembled through Halogen Bonding. Journal of the American Chemical Society, 2015, 137, 15386-15389.	13.7	88
47	Thermodynamic Evaluation of Aromatic CH/Ï€ Interactions and Rotational Entropy in a Molecular Rotor. Journal of the American Chemical Society, 2015, 137, 2175-2178.	13.7	50
48	Large-Scale Green Chemical Synthesis of Adjacent Quaternary Chiral Centers by Continuous Flow Photodecarbonylation of Aqueous Suspensions of Nanocrystalline Ketones. Journal of the American Chemical Society, 2015, 137, 1679-1684.	13.7	28
49	Crystalline arrays of molecular rotors with TIPS-trityl and phenolic-trityl stators using phenylene, 1,2-difluorophenylene and pyridine rotators. RSC Advances, 2015, 5, 55201-55208.	3.6	21
50	Structureâ€"Reactivity Correlations and Mechanistic Understanding of the Photorearrangement and Photosalient Effect of α-Santonin and Its Derivatives in Solutions, Crystals, and Nanocrystalline Suspensions. Crystal Growth and Design, 2015, 15, 1983-1990.	3.0	53
51	Phosphine-Mediated Iterative Arene Homologation Using Allenes. Journal of the American Chemical Society, 2015, 137, 11258-11261.	13.7	40
52	Stereospecific Synthesis of Substituted Aziridines by a Crystal-to-Crystal Photodenitrogenation of Î'' ² -1,2,3-Triazolines. Organic Letters, 2015, 17, 4568-4571.	4.6	19
53	One-Pot Synthesis of Nuevamine Aza-Analogues by Combined Use of an Oxidative Ugi Type Reaction and Aza-Diels–Alder Cycloaddition. Synlett, 2014, 25, 403-406.	1.8	11
54	Naphthalene Diimide Based Materials with Adjustable Redox Potentials: Evaluation for Organic Lithium-Ion Batteries. Chemistry of Materials, 2014, 26, 7151-7157.	6.7	141

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55	Photochromic Molecular Gyroscope with Solid State Rotational States Determined by an Azobenzene Bridge. Journal of Organic Chemistry, 2014, 79, 1611-1619.	3.2	69
56	A fullerene–carbene adduct as a crystalline molecular rotor: remarkable behavior of a spherically-shaped rotator. Physical Chemistry Chemical Physics, 2014, 16, 12980-12986.	2.8	8
57	Rotation of a Bulky Triptycene in the Solid State: Toward Engineered Nanoscale Artificial Molecular Machines. Journal of the American Chemical Society, 2014, 136, 8871-8874.	13.7	62
58	Engineered Photochromism in Crystalline Salicylidene Anilines by Facilitating Rotation to Reach the Colored <i>trans</i> -Keto Form. Crystal Growth and Design, 2014, 14, 3667-3673.	3.0	25
59	Synthesis and Solid-State Characterization of Self-Assembled Macrocyclic Molecular Rotors of Bis(dithiocarbamate) Ligands with Diorganotin(IV). Organometallics, 2014, 33, 354-362.	2.3	27
60	Conformational Polymorphism and Isomorphism of Molecular Rotors with Fluoroaromatic Rotators and Mestranol Stators. Crystal Growth and Design, 2013, 13, 5107-5115.	3.0	23
61	Photoinduced and Thermal Denitrogenation of Bulky Triazoline Crystals: Insights into Solid-to-Solid Transformation. Journal of the American Chemical Society, 2013, 135, 6626-6632.	13.7	52
62	Synthesis, Rotational Dynamics, and Photophysical Characterization of a Crystalline Linearly Conjugated Phenyleneethynylene Molecular Dirotor. Journal of Organic Chemistry, 2013, 78, 5293-5302.	3.2	33
63	Amphidynamic Crystals of a Steroidal Bicyclo[2.2.2]octane Rotor: A High Symmetry Group That Rotates Faster than Smaller Methyl and Methoxy Groups. Journal of the American Chemical Society, 2013, 135, 10388-10395.	13.7	62
64	Solid-state photochemistry of crystalline pyrazolines: reliable generation and reactivity control of 1,3-biradicals and their potential for the green chemistry synthesis of substituted cyclopropanes. Photochemical and Photobiological Sciences, 2012, 11, 1929-1937.	2.9	12
65	Reaction Mechanism in Crystalline Solids: Kinetics and Conformational Dynamics of the Norrish Type II Biradicals from α-Adamantyl- <i>p</i> Methoxyacetophenone. Journal of the American Chemical Society, 2012, 134, 1115-1123.	13.7	16
66	Crystals and Aggregates of a Molecular Tetrarotor with Multiple Trityl Embraces Derived from Tetraphenyladamantane. Crystal Growth and Design, 2012, 12, 3792-3798.	3.0	10
67	NMR and X-ray Study Revealing the Rigidity of Zeolitic Imidazolate Frameworks. Journal of Physical Chemistry C, 2012, 116, 13307-13312.	3.1	150
68	Toward Crystalline Molecular Rotors with Linearly Conjugated Diethynyl-Phenylene Rotators and Pentiptycene Stators. Journal of Organic Chemistry, 2012, 77, 7428-7434.	3.2	15
69	Dynamics of Molecular Rotors Confined in Two Dimensions: Transition from a 2D Rotational Glass to a 2D Rotational Fluid in a Periodic Mesoporous Organosilica. Journal of Physical Chemistry B, 2012, 116, 1623-1632.	2.6	47
70	Crystalline molecular machines: function, phase order, dimensionality, and composition. Chemical Society Reviews, 2012, 41, 1892-1910.	38.1	347
71	Design and Evaluation of a Crystalline Hybrid of Molecular Conductors and Molecular Rotors. Journal of the American Chemical Society, 2012, 134, 7880-7891.	13.7	52
72	Synthesis and Evaluation of Molecular Rotors with Large and Bulky <i>tert</i> -Butyldiphenylsilyloxy-Substituted Trityl Stators. Journal of Organic Chemistry, 2012, 77, 6887-6894.	3.2	20

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73	Efficient Aziridine Synthesis in Metastable Crystalline Phases by Photoinduced Denitrogenation of Crystalline Triazolines. Organic Letters, 2012, 14, 3874-3877.	4.6	29
74	Ultrafast Spectroscopic Observation of a Quantum Chain Reaction: The Photodecarbonylation of Nanocrystalline Diphenylcyclopropenone. Journal of Physical Chemistry Letters, 2012, 3, 81-86.	4.6	13
75	Stable radicals during photodecarbonylations of trityl-alkyl ketones enable solid state reactions through primary and secondary radical centers. Photochemical and Photobiological Sciences, 2011, 10, 1731-1734.	2.9	5
76	Steady state and transient kinetics in crystalline solids: the photochemistry of nanocrystalline $1,1,3$ -triphenyl-3-hydroxy-2-indanone. Chemical Science, $2011,2,1497$.	7.4	17
77	The synthesis and stereospecific solid-state photodecarbonylation of hexasubstituted meso- and d,l-ketones. Photochemical and Photobiological Sciences, 2011, 10, 1480-1487.	2.9	12
78	Synthesis and Solid-State Rotational Dynamics of Molecular Gyroscopes with a Robust and Low Density Structure Built with a Phenylene Rotator and a $Tri(meta-terphenyl)$ methyl Stator. Crystal Growth and Design, 2011, 11, 2654-2659.	3.0	24
79	Anisochronous Dynamics in a Crystalline Array of Steroidal Molecular Rotors: Evidence of Correlated Motion within 1D Helical Domains. Journal of the American Chemical Society, 2011, 133, 7280-7283.	13.7	64
80	Oxyallyl Exposed: An Open-Shell Singlet with Picosecond Lifetimes in Solution but Persistent in Crystals of a Cyclobutanedione Precursor. Journal of the American Chemical Society, 2011, 133, 2342-2345.	13.7	28
81	Excited State Kinetics in Crystalline Solids: Self-Quenching in Nanocrystals of 4,4′-Disubstituted Benzophenone Triplets Occurs by a Reductive Quenching Mechanism. Journal of the American Chemical Society, 2011, 133, 17296-17306.	13.7	31
82	Ultra-fast Rotors for Molecular Machines and Functional Materials via Halogen Bonding: Crystals of 1,4-Bis(iodoethynyl)bicyclo[2.2.2]octane with Distinct Gigahertz Rotation at Two Sites. Journal of the American Chemical Society, 2011, 133, 6371-6379.	13.7	98
83	Synthesis of Bridged Molecular Gyroscopes with Closed Topologies: Triple One-Pot Macrocyclization. Journal of Organic Chemistry, 2011, 76, 8355-8363.	3.2	36
84	Framework mobility in the metal–organic framework crystal IRMOF-3: Evidence for aromatic ring and amine rotation. Journal of Molecular Structure, 2011, 1004, 94-101.	3.6	68
85	Ring strain release as a strategy to enable the singlet state photodecarbonylation of crystalline $1,4\hat{a}\in e$ yclobutanediones. Journal of Physical Organic Chemistry, 2011, 24, 883-888.	1.9	16
86	Efficient Utilization of Higherâ€Lying Excited States to Trigger Chargeâ€Transfer Events. Chemistry - A European Journal, 2010, 16, 9638-9645.	3.3	36
87	Photochemical reaction mechanisms and kinetics with molecular nanocrystals: surface quenching of triplet benzophenone nanocrystals. Journal of Physical Organic Chemistry, 2010, 23, 376-381.	1.9	9
88	Symmetry and dynamics of molecular rotors in amphidynamic molecular crystals. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14973-14977.	7.1	109
89	Solid-State Molecular Rotors with Perdeuterated Stators: Mechanistic Insights from Biphenylene Rotational Dynamics in Ordered and Disordered Crystal Forms. Journal of Organic Chemistry, 2010, 75, 2482-2491.	3.2	33
90	The Missing Link Between Molecular Triplets and Spin-Polarized Free Radicals: Room Temperature Triplet States of Nanocrystalline Radical Pairs. Journal of the American Chemical Society, 2010, 132, 82-84.	13.7	33

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91	Synthesis and solid state characterization of molecular rotors with steroidal stators: ethisterone and norethisterone. Organic and Biomolecular Chemistry, 2010, 8, 2993.	2.8	28
92	The entropic enlightenment of organic photochemistry: strategic modifications of intrinsic decay pathways using an information-based approach. Photochemical and Photobiological Sciences, 2010, 9, 1574-1588.	2.9	12
93	Dendritic Porphyrin–Fullerene Conjugates: Efficient Lightâ€Harvesting and Chargeâ€Transfer Events. Chemistry - A European Journal, 2009, 15, 12223-12233.	3.3	54
94	Radical Reactions with Double Memory of Chirality (2MOC) for the Enantiospecific Synthesis of Adjacent Stereogenic Quaternary Centers in Solution: Cleavage and Bonding Faster than Radical Rotation. Journal of the American Chemical Society, 2009, 131, 8425-8433.	13.7	25
95	Photonic Amplification by a Singlet-State Quantum Chain Reaction in the Photodecarbonylation of Crystalline Diarylcyclopropenones. Journal of the American Chemical Society, 2009, 131, 11606-11614.	13.7	58
96	Synthesis, Characterization, and Rotational Dynamics of Crystalline Molecular Compasses with N-Heterocyclic Rotators. Journal of Organic Chemistry, 2009, 74, 8554-8565.	3.2	34
97	Photodecarbonylation of Ketodiacids as Ammonium Salts: Efficient Formation of Câ^'C Bonds Between Adjacent Quaternary Centers in the Crystalline State. Journal of Organic Chemistry, 2009, 74, 2476-2480.	3.2	9
98	Engineering Crystal Packing and Internal Dynamics in Molecular Gyroscopes by Refining their Components. Fast Exchange of a Phenylene Rotator by ² H NMR. Crystal Growth and Design, 2009, 9, 3124-3128.	3.0	45
99	Synthesis, properties, and LED performance of highly luminescent metal complexes containing indolizino [3,4,5-ab] isoindoles. Journal of Materials Chemistry, 2009, 19, 5826.	6.7	21
100	Photochemical generation, intramolecular reactions, and spectroscopic detection of oxonium ylide and carbene intermediates in a crystalline ortho-(1,3-dioxolan-2-yl)-diaryldiazomethane. Organic and Biomolecular Chemistry, 2009, 7, 1106.	2.8	14
101	Synthesis and solid-state dynamics of molecular dirotors. Tetrahedron, 2008, 64, 8336-8345.	1.9	14
102	Nanoscale gadgets. Nature Materials, 2008, 7, 431-432.	2 7. 5	40
103	Diastereoselective synthesis and spin-dependent photodecarbonylation of di(3-phenyl-2-pyrrolidinon-3-yl)ketones: synthesis of nonadjacent and adjacent stereogenic quaternary centers. Chemical Communications, 2008, , 193-195.	4.1	10
104	Solid-State Photodecarbonylation of Diphenylcyclopropenone:  A Quantum Chain Process Made Possible by Ultrafast Energy Transfer. Journal of the American Chemical Society, 2008, 130, 1140-1141.	13.7	44
105	Amphidynamic Character of Crystalline MOF-5:  Rotational Dynamics of Terephthalate Phenylenes in a Free-Volume, Sterically Unhindered Environment. Journal of the American Chemical Society, 2008, 130, 3246-3247.	13.7	229
106	Unexpected Solid-State Photochemistry of an α-Thiophenyl-αâ€~Thiophenyl-1÷â€~Thiophenyl- <i>S</i> , <i>S</i> ,dioxo-Substituted Ketone. Journal of Organic Chemistry, 2008, 73, 638-643.	3.2	12
107	Rotational Dynamics in a Crystalline Molecular Gyroscope by Variable-Temperature13C NMR,2H NMR, X-Ray Diffraction, and Force Field Calculations. Journal of the American Chemical Society, 2007, 129, 839-845.	13.7	62
108	The Photoarrangement of α-Santonin is a Single-Crystal-to-Single-Crystal Reaction:  A Long Kept Secret in Solid-State Organic Chemistry Revealed. Journal of the American Chemical Society, 2007, 129, 9846-9847.	13.7	99

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109	Pump–probe spectroscopy and circular dichroism of nanocrystalline benzophenone—towards absolute kinetic measurements in solid state photochemical reactions. Chemical Communications, 2007, , 4266.	4.1	37
110	Synthesis of a Triply-Bridged Molecular Gyroscope by a Directed Meridional Cyclization Strategy. Organic Letters, 2007, 9, 3559-3561.	4.6	62
111	Importance of Correlated Motions on the Low Barrier Rotational Potentials of Crystalline Molecular Gyroscopes. Journal of the American Chemical Society, 2007, 129, 3110-3117.	13.7	58
112	Photodecarbonylation of 1,3-Dithiophenyl Propanone:  Using Nanocrystals to Overcome the Filtering Effect of Highly Absorbing Trace Impurities. Organic Letters, 2007, 9, 4351-4354.	4.6	16
113	Parallel Syntheses of (+)―and (â^')â€Î±â€Cuparenone by Radical Combination in Crystalline Solids. Angewandte Chemie - International Edition, 2007, 46, 6485-6487.	13.8	68
114	Molecular Crystals on the Move: From Singleâ€Crystalâ€toâ€Singleâ€Crystal Photoreactions to Molecular Machinery. Angewandte Chemie - International Edition, 2007, 46, 8945-8947.	13.8	194
115	Norrish Type I vs. Norrish-Yang Type II in the Solid State Photochemistry of CIS-2,6-DI(1-Cyclohexenyl)-Cyclohexanone: A Computational Study. Molecular Crystals and Liquid Crystals, 2006, 456, 15-24.	0.9	5
116	Combination vs. disproportionation in dialkyl biradicals. Selectivity reversal in a crystalline solid. Photochemical and Photobiological Sciences, 2006, 5, 449.	2.9	13
117	Crystalline Molecular Machines:  A Quest Toward Solid-State Dynamics and Function. Accounts of Chemical Research, 2006, 39, 413-422.	15.6	299
118	Large-Scale Photochemical Reactions of Nanocrystalline Suspensions:  A Promising Green Chemistry Method. Organic Letters, 2006, 8, 2615-2617.	4.6	82
119	Improved Physical Properties and Rotational Dynamics in a Molecular Gyroscope with an Asymmetric Stator Structure. Organic Letters, 2006, 8, 3417-3420.	4.6	30
120	Crystalline Molecular Gyroscopes: The Effects of Subtle Molecular Differences on the Crystal Packing of Triphenylmethyl and Triphenylsilyl Stators. Molecular Crystals and Liquid Crystals, 2006, 456, 221-230.	0.9	7
121	Engineering Stereospecific Reactions in Crystals: Synthesis of Compounds with Adjacent Stereogenic Quaternary Centers by Photodecarbonylation of Crystalline Ketones. Topics in Stereochemistry, 2006, , 205-253.	2.0	27
122	Dipolar rotor-rotor interactions in a difluorobenzene molecular rotor crystal. Physical Review B, 2006, 74, .	3.2	72
123	Crystalline Molecular Machines: Encoding Supramolecular Dynamics into Molecular Structure. ChemInform, 2005, 36, no.	0.0	0
124	Crystalline molecular machines: Encoding supramolecular dynamics into molecular structure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10771-10776.	7.1	216
125	Dielectric response of a dipolar molecular rotor crystal. Physical Review B, 2005, 72, .	3.2	92
126	Removal of Conflicting Molecular Symmetries Restores a Hexagonal Array of Six-Fold Phenyl Embraces in a bis(Trityl)-Containing Compound. I. Crystals of 1,1,1,6,6,6-Hexaphenyl-2,4-hexadiyne. Crystal Growth and Design, 2005, 5, 53-55.	3.0	21

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127	Green Chemistry Strategies Using Crystal-to-Crystal Photoreactions: Stereoselective Synthesis and Decarbonylation oftrans-α,αâ€~-Dialkenoylcyclohexanones. Journal of the American Chemical Society, 2005, 127, 7994-7995.	13.7	40
128	Hammett Analysis of Photodecarbonylation in Crystalline 1,3-Diarylacetones. Organic Letters, 2005, 7, 371-374.	4.6	33
129	Effects of Rotational Symmetry Order on the Solid State Dynamics of Phenylene and Diamantane Rotators. Journal of the American Chemical Society, 2005, 127, 6554-6555.	13.7	70
130	Secondary Alpha Isotope Effects on Deuterium Tunneling in Tripleto-Methylanthrones:Â Extraordinary Sensitivity to Barrier Width. Journal of the American Chemical Society, 2005, 127, 10178-10179.	13.7	17
131	Highlighting gyroscopic motion in crystals in 13C CPMAS spectra by specific isotopic substitution and restricted cross polarization. Chemical Communications, 2005, , 189.	4.1	25
132	Molecular Crystals with Moving Parts:Â Synthesis, Characterization, and Crystal Packing of Molecular Gyroscopes with Methyl-Substituted Triptycyl Frames. Journal of Organic Chemistry, 2004, 69, 1652-1662.	3.2	84
133	Total Synthesis of (±)-Herbertenolide by Stereospecific Formation of Vicinal Quaternary Centers in a Crystalline Ketone. Organic Letters, 2004, 6, 645-647.	4.6	76
134	Molecular Compasses and Gyroscopes:  Engineering Molecular Crystals with Fast Internal Rotation. Crystal Growth and Design, 2004, 4, 15-18.	3.0	54
135	Title is missing!. Angewandte Chemie, 2003, 115, 1158-1164.	2.0	19
136	Engineering Carbene Rearrangements in Crystals: From Molecular Information to Solid-State Reactivity. ChemInform, 2003, 34, no.	0.0	0
137	Diastereospecific Photochemical Dimerization of a Stilbene-Containing Daisy Chain Monomer in Solution as well as in the Solid State. Angewandte Chemie - International Edition, 2003, 42, 1126-1132.	13.8	98
138	Engineering Carbene Rearrangements in Crystals:  From Molecular Information to Solid-State Reactivity. Accounts of Chemical Research, 2003, 36, 491-498.	15.6	126
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